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L4: Entry 1 of 4

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020127623

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020127623 A1

TITLE: Biosensors, reagents and diagnostic applications of directed evolution

PUBLICATION-DATE: September 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Minshull, Jeremy	Menlo Park	CA	US	
Davis, S. Christopher	San Francisco	CA	US	
Welch, Mark	Fremont	CA	US	
Raillard, Sun Ai	Mountain View	CA	US	
Vogel, Kurt	Palo Alto	CA	US	
Krebbel, Claus	Mountain View	CA	US	

US-CL-CURRENT: 435/7.92; 435/7.1

## ABSTRACT:

Methods for sensing test stimuli using arrays of biopolymers are provided. Libraries of biopolymers, such nucleic acid variants, and expression products encoded by nucleic acid variants are provided. Reusable library arrays, and methods for their use are provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC
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☐ 2. Document ID: US 20020052016 A1

L4: Entry 2 of 4

File: PGPB

May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020052016

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020052016 A1

TITLE: Polyhydroxyalkanoate levels as an indicator of bioreactor health

PUBLICATION-DATE: May 2, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dragotta, Dominic A.	Elkton	MD	US	
Nagarajan, Vasantha	Wilmington	DE	US	
Thomas, Stuart M.	Wilmington	DE	US	

US-CL-CURRENT: 435/34

## ABSTRACT:

A method has been developed to monitor the health of an activated sludge environment in a wastewater process comprising monitoring the levels of polyhydroxyalkanoates (PHA) produced and correlating those levels with various selected sample parameters. In general, levels of PHA in excess of about 15% to about 20% dry weight of the biomass is an indication that the biocatalytic efficiency of the wastewater treatment process is impaired.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☒ 3. Document ID: US 5968801 A

L4: Entry 3 of 4

File: USPT

Oct 19, 1999

US-PAT-NO: 5968801

DOCUMENT-IDENTIFIER: US 5968801 A

TITLE: Polyhydroxyalkanoate depolymerase and process for producing the same

DATE-ISSUED: October 19, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Saito; Yuji	Tokyo			JP
Shibayama; Masako	Tokyo			JP
Takebe; Hidehi	Kanagawa			JP
Matsunobu; Toshio	Kanagawa			JP

US-CL-CURRENT: 435/197; 435/69.1, 435/71.1

## ABSTRACT:

The present invention relates to polyhydroxyalkanoate depolymerase having a N-terminal fragment of the amino acid sequence of SEQ ID NO: 1 and having a molecular weight of about 33,000 as determined by SDS polyacrylamide gel electrophoresis; a process for producing polyhydroxyalkanoate depolymerase, comprising culturing in a medium a microorganism which belongs to the genus Corynebacterium and has the ability to produce the polyhydroxyalkanoate depolymerase and recovering the polyhydroxyalkanoate depolymerase from the resulting culture; and a process for producing polyhydroxyalkanoate depolymerase, comprising culturing in a medium a transformant transformed with a recombinant vector containing a gene of the polyhydroxyalkanoate depolymerase and recovering the polyhydroxyalkanoate depolymerase from the resulting culture. According to the present invention, there can be provided novel PHA depolymerase with the activity of decomposing .omega.-hydroxyalkanoates, particularly 4HB homopolyester or copolymerized polyesters containing said homopolyester, and a process of efficiently producing the enzyme.

3 Claims, 6 Drawing figures

Exemplary Claim Number: 1  
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMMC
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☒ 4. Document ID: US 5518907 A

L4: Entry 4 of 4

File: USPT

May 21, 1996

US-PAT-NO: 5518907

DOCUMENT-IDENTIFIER: US 5518907 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Cloning and expression in Escherichia coli of the Alcaligenes eutrophus H16 poly-beta-hydroxybutyrate biosynthetic pathway

DATE-ISSUED: May 21, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dennis; Douglas E.	Weyers Cave	VA		

US-CL-CURRENT: 435/141; 435/252.33, 435/69.1

ABSTRACT:

Genes coding for poly-beta-hydroxybutyrate were removed from Alcaligenes eutrophus H16 and cloned into Escherichia coli. Some of the clones produced PHB to 90% of the cell weight.

8 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMMC
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HYDROXYVALERATES	36
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(L3 AND (HYDROXYBUTYRATE OR HYDROXYVALERATE)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	4